

(19) World Intellectual Property
Organization
International Bureau



544281

(43) International Publication Date
19 August 2004 (19.08.2004)

PCT

(10) International Publication Number
WO 2004/069853 A1

(51) International Patent Classification⁷: **C07H 17/08**,
A01N 43/90

(21) International Application Number:
PCT/EP2004/000977

(22) International Filing Date: 3 February 2004 (03.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0302547.5 4 February 2003 (04.02.2003) GB

(71) Applicant (for all designated States except US): **SYNGENTA PARTICIPATIONS AG** [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MURPHY KESSABI, Fiona** [IE/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **CAS-SAYRE, Jérôme** [FR/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH).

QUARANTA, Laura [IT/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **PITTERNA, Thomas** [AT/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **MAIENFISCH, Peter** [CH/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH).

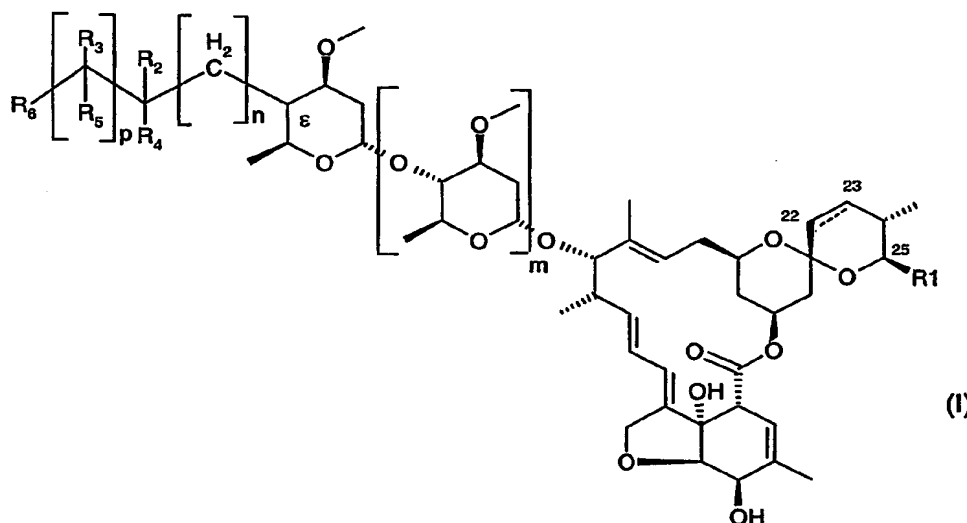
(74) Common Representative: **SYNGENTA PARTICIPATIONS AG**; P.O. Box, CH-4002 Basel (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: **AVERMECTINS AND AVERMECTIN MONOSACCHARIDES SUBSTITUTED IN THE 4'- AND 4''-POSITION HAVING PESTICIDAL PROPERTIES**



(57) Abstract: What is described are a compound of the formula (I) wherein the bond of atoms C₂₂ and C₂₃ is a single or double bond; m is 0 or 1; n is 0, 1 or 2; p is 0 or 1; R₁ is C₁-C₁₂-alkyl, C₃-C₈-cycloalkyl or C₂-C₁₂-alkenyl; R₂ is for example H, C₁-C₁₂-alkyl, C₁-C₁₂-haloalkyl or C₁-C₁₂-hydroxyalkyl; or together with R₄ form with the carbon to which they are bound for example a three- to seven-membered ring; R₃ is for example H, C₁-C₁₂-alkyl, halogen, halo-C₁-C₂alkyl, CN, NO₂ or C₃-C₈cycloalkyl; R₄ has the same meanings as R₂; R₅ and R₆ independently of each other are for example H, C₁-C₁₂-alkyl, CN, NO₂, OH, SH, halogen, halo-C₁-C₂alkyl or C₃-C₈cycloalkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form a process for preparing and using these compounds and their tautomers; pesticides whose active compound is selected from these compounds and their tautomers; and a process for preparing these compounds and compositions, and the use of these compounds and compositions.

WO 2004/069853 A1